## Fall 2016 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including USACE Erosion Survey

#### Sacramento River Basin

ST0020	Overall LMA	Total LMA						
Sutter Maintenance Yard East-West	Rating	Miles						
Interceptor	U	4.79						
			nce Deficiancy		Enforce	ement		k System
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles		Obsole M Miles	
Earthen Levee	<u> </u>			<u> </u>				
Vegetation	2.00		2.00	41.75%	0.02			
Trim / Thin Trees	0.50		0.50	10.44%				
Encroachments	0.13		0.13	2.71%	0.43			
Erosion / Bank Caving	0.49	0.03	0.61	12.73%				
Rivers, Channels & Designated Floodways								
Erosion / Bank Caving		0.01	0.04	0.83%				
Supplemental			I				ı	
DWR UCIP Field Study					0.14			
LMA Totals:	3.12	0.04	3.28	68.46%	0.59	0.00	0.00	0.00
Unit No. 01 West Levee RB	Overall Unit Rating	Total Unit Miles						
ST0020	U	1.75						
			nce Deficiancy		Enforcement		Enforcement Design & Obsoles	
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Vegetation	0.40		0.40	22.91%	0.02			
Trim / Thin Trees	0.49		0.49	28.07%				
Encroachments	0.01		0.01	0.57%	0.13			
Erosion / Bank Caving	0.02	0.03	0.14	8.02%				
Rivers, Channels & Designated Floodways								
Erosion / Bank Caving		0.01	0.04	2.29%				
Supplemental			I				ı	
DWR UCIP Field Study					0.02			
Unit Totals:	0.92	0.04	1.08	61.86%	0.17	0.00	0.00	0.00
Unit No. 02 East Levee LB	Overall Unit Rating	Total Unit Miles						
ST0020	U	3.05						
		Maintena	nce Deficiancy		Enforc	ement	Design & Obsole	k System
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Vegetation	1.60		1.60	52.54%				
Trim / Thin Trees	0.01		0.01	0.33%				
Encroachments	0.12		0.12	3.94%	0.30			
Erosion / Bank Caving	0.47		0.47	15.43%				
Supplemental								
DWR UCIP Field Study					0.12			
Unit Totals:	2.20	0.00	2.20	72.24%	0.42	0.00	0.00	0.00

Winter \*\*

#### Flood Control Project Maintenance Levee Inspections

## **LMA District Cover Sheet**

## Fall 2016 Levee Inspection Results

# **Sutter Maintenance Yard East-West Interceptor**

Summer \*\*

Spring

	(iviai cri - iviay)	(June - August)	(September - November)	(December - February)
† Overall LMA Rating (Fall Only)			U	
*	** Non-receipt of Summ Reports may effect or			
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated				ual maintenance
FALL INSPECTIONS: The overall maintenar within the attached un			ion and maintenance de ended to be an indiction o	
Comments				

## **Unit Cover Sheet**

## Fall 2016 Levee Inspection Results

## **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles
Unit No. 01 West Levee	Right	1.75

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/17/2016 - 3/17/2016		11/2/2016 - 11/2/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

#### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/02/2016 11/02/2016	Tariq Chechi

LM Start		Rating **	Α	Issue No.		9		
LM End		Issue Type +	Ma	Location *		WS		
Cotogony	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Operation	s & Maintena	nce		0		0	
item	Manuals				0		0	
DWR ID DWR_NA0020_01_s _ 2013_9								
		Comn	nent Cod	de				
		Inspecto	or Comm	nent				
The LMA has the O&M manuals.								

No Photos

LM Start		Rating **	Α	Issue No.		10		
LM End		Issue Type +	Ma	Location *		WS		
Category Earthen Levee			GPS Latitude/Longitude					
Calegory				Start		End		
Emergency Supplies &				0		0		
Item Equipment					0		0	
DWR ID	DWR_NA0	020_01_s _ 201	3_10					
		Comn	nent Cod	de				
	Inspector Comment							
The LMA has adequate flood fight supplies and equipment.								

No Photos

LM Start		Rating **	Α	Issue No.		11	
LM End		Issue Type +	Ma	Location *		WS	
Earthen Levee				GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Flood Pre	paredness &	Training		٥		0
пеш					٥		0
DWR ID	DWR_NA0	020_01_s _ 201	3_11				
		Comn	nent Coc	de			
		Inspecto	or Comm	nent			
The LMA	The LMA completed flood fight training in 2016.						

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/02/2016 11/02/2016	Tariq Chechi

LM Start	0.00	Rating **	М	Issue No.		5
LM End	0.12	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Vegetatio	n		39.1715	77°	39.171507°
пеш				-121.7600	)19°	-121.757773°
DWR ID DWR_NA0020_01_s _ 2012_5						
		Comn	nent Cod	de		
V1 : Contre easements	_	grass and wee	eds on th	e levee slo	pes	and
		Inspecto	or Comm	nent		

## Photo 1 of 1: FA\_2016\_ST0020\_213\_5\_20161107\_00016.jpg



View of the vegetation along the landside toe.

LM Start	0.00	Rating **	М	Issue No.		7
LM End	0.28	Issue Type +	Ma	Location *		CR
Earthen Levee				GPS Latitude/Longitude		
Category			Start		End	
Item	Vegetatio	n	39.1715	77°	39.171475°	
item					19°	-121.754852°
DWR ID	DWR_NA0	020_01_s _ 201	2_7			

#### Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

#### Inspector Comment

Vegetation along the levee crown and waterside slope.

## Photo 1 of 1 : FA\_2016\_ST0020\_213\_7\_20161107\_00017.jpg



View of the vegetation along the levee crown and waterside.

LM Start	0.23	Rating **	М	Issue No.		2	
LM End	0.25	Issue Type +	En	Location *		CR	
Category Earthen Levee				GPS Latitude/Longitude			
Category			Start		End		
Item	Vegetatio	Vegetation			18°	39.171408°	
item				-121.755963 °		-121.755578°	
DWR ID DWR_NA0020_01_s _ 2012_2							
Comment Code							
V6 · Lands	caning						

vo : Landscaping

#### Inspector Comment

Remove the cactus and pine trees from the waterside berm.



View of the cactus and pine trees along the waterside berm.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/02/2016 11/02/2016	Tariq Chechi

11100	0.23	Rating **	М	Issue No.		2 (20mt)	
LM Start	0.23	Rating	IVI	issue ivo.		2 (cont)	
LM End	0.25	Issue Type +	En	Location *		CR	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Vegetation			39.1714	18°	39.171408°	
пеш			-121.755963 °		° -121.755578 °		
DWR ID DWR_NA0020_01_s _ 2012_2							
		Comn	nent Cod	de			
V6 : Lands	scaping						
		Inspecto	or Comm	nent			
Remove th	ne cactus a	and pine trees	from the	e waterside	beri	m.	



Another view of the cactus and pine trees along the waterside berm.

Rating \*\* С Issue No. LM Start 0.36 23 0.36 Issue Type + Location \* CR LM End Earthen Levee GPS Latitude/Longitude Category Start End Encroachments 39.171450° 39.171450° -121.754058 ° -121.754058° DWR ID DWR\_NA0020\_01\_f \_ 2013\_23 Comment Code PR: Prunings Inspector Comment

Remove the prunings from the waterside berm.

No Photos

LM Start	0.43	Rating **	М	Issue No.		14	
LM End	0.43	Issue Type +	Ma	Location *	WS		
Category	evee	GPS La	atitud	e/Longitude			
Category				Start		End	
Item	Encroachi	39.1714	22°	39.171422°			
Item				-121.751978°		-121.751978°	
DWR ID DWR_ST0020_01_f _ 2016_14							
		Comn	nent Cod	de			
TR : Tree	or limb						
Inspector Comment							
Remove the tree limb from the waterside.							



View of a fallen limb.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/02/2016 11/02/2016	Tariq Chechi

0.45	Rating **	M	Issue No.		15		
0.45	Issue Type +	En	Location *	LS			
Category Earthen Levee				atitud	e/Longitude		
			Start		End		
Encroachments			39.1713	92°	39.171392°		
			-121.751630 °		-121.751630°		
DWR ID DWR_ST0020_01_f _ 2016_15							
Comment Code							
PR : Prunings							
Inspector Comment							
Remove prunings from the landside toe.							
	0.45 Earthen L Encroachi DWR_ST00	0.45 Issue Type + Earthen Levee Encroachments  DWR_ST0020_01_f _ 2016 Commings  Inspector	0.45 Issue Type + En  Earthen Levee  Encroachments  DWR_ST0020_01_f_2016_15  Comment Coongs  Inspector Comm	0.45         Issue Type +         En         Location *           Earthen Levee         GPS Last         Start           Encroachments         39.1713         -121.7516           DWR_ST0020_01_f_2016_15         Comment Code           ngs         Inspector Comment	0.45         Issue Type +         En         Location *           Earthen Levee         GPS Latitudents           Encroachments         39.171392 °           -121.751630 °           DWR_ST0020_01_f _ 2016_15           Comment Code           ngs           Inspector Comment		

Photo 1 of 1: FA\_2016\_ST0020\_213\_15\_20161107\_00019.jpg

View of the prunings along the landside toe.

LM Start	0.51	Rating **	М	Issue No.		25	
LM End	0.83	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory			Start		End		
Item	Trim / Thi	n Trees		39.1713	92°	39.171317 °	0
itein				-121.750478°		-121.744545 °	0
DWR ID	DWR_ST0	020_01_f _ 2016	6_25				
Comment Code							

T2: Thin trees to allow visibility of the ground and room to flood fight.

#### Inspector Comment

Olleanders are partially blocking visibility and access.

No Photos

LM Start	0.59	Rating **	М	Issue No.		1		
LM End	0.59	Issue Type +	En	Location *		WS		
Category Earthen Levee			GPS Latitude/Longitude					
Calegory	ory			Start		End		
Item	Encroach	Encroachments			72°	39.171372°		
Item				-121.75000	00°	-121.750000°		
DWR ID	DWR ID DWR_ST0020_01_f _ 2015_1							
	Comment Code							
TR : Tree	or limb							

## Inspector Comment

Remove the cactus tree from the waterside slope.



View of the cactus tree that has fallen on the waterside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/02/2016 11/02/2016	Tariq Chechi

LM Start	0.62	Rating **	U	Issue No.	4		
LM End	0.65	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS L	atitud	e/Longitude	
Calegory				Start		End	
Item	Erosion / I	Bank Caving		39.1712	92°	39.171232°	
item				-121.7488	868°	-121.748175°	
DWR ID DWR_NA0020_01_s _ 2012_4							
		Comn	nent Cod	de			
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spe	ction.	
		Inspecto	or Comm	nent			
Repair the	erosion al	ong the concr	ete ditch	١.			

-						
	LM Start	0.62	Rating **	U	Issue No.	4 (cont)
	LM End	0.65	Issue Type +	Ma	Location *	WS

# Photo 1 of 2 : FA\_2016\_ST0020\_213\_4\_20160823\_00005.jpg



View the erosion along the concrete ditch.

#### Photo 2 of 2: FA\_2016\_ST0020\_213\_4\_20161107\_00020.jpg



Another view the erosion along the concrete ditch.

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/02/2016 11/02/2016	Tariq Chechi

LM Start	0.89	Rating **	М	Issue No.		26		
LM End	0.89	Issue Type +	En	Location *		WS		
Category				GPS Latitude/Longitude				
Calegory				Start End				
Item	DWR UC	P Field Study		39.1713	17°	39.171317°		
пеш				-121.7434	74 °	-121.743474°		
DWR ID						·		
	Comment Code							

## Inspector Comment

FS\_ID:50325 DS\_ID:19417 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/19/2016 Meter has been removed from the power box and the power lines have been disconnected from the pole and pump. Appears this crossing may have been abandoned.5/12/2015 Crossing appears in good condition. No noticeable issues to report.11/17/2014 Same as last inspection.5/12/2014 Same as last inspection.11/4/2013 Same as last inspection.5/15/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 12-inch steel irrigation pipe crosses over canal above crown elevation. Chain link enclosure on the landside (LS) with pump, power line, and shutoff valve. 24-inch concrete standpipe on unprotected side of canal. [Additional Reference(s): DWR Levee Log, Revised 1990]

FS Date: 10/12/2016 7:47:42 AM

LM Start	0.89	Rating **	М	Issue No.	26 (cont)
LM End	0.89	Issue Type +	En	Location *	WS



Pump, meter, power pole, slide gate, and chainlink fence on LS with 24-inch concrete standpipe on unprotected side of canal.

#### Photo 2 of 2: UCIP\_FA\_2016\_50325\_74963.jpg



Meter removed from box and disconnected power lines

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/02/2016 11/02/2016	Tariq Chechi

LM Start	0.94	Rating **	M	Issue No.		16	
LM End	0.98	Issue Type +	En	Location *		LS	
Cotogon	Earthen L	evee		GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Encroach	ments		39.1713	33°	39.171333°	
item				-121.7425	77°	-121.741827°	
DWR ID DWR_ST0020_01_f _ 2016_16							
		Comn	nent Cod	de			
FE : Fence	Э						
		Inspecto	or Comm	nent			
Ask the landowner to remove the fence.							



View of an unauthorized fence by a landowner.

LM Start	0.94	Rating **	M	Issue No.		17	
LM End	0.98	Issue Type +	En	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Item	Encroachments			39.1713	33°	39.171333°	
item				-121.7425	77°	-121.741827°	
DWR ID	DWR_ST0	020_01_f _ 201	6_17				
		Comn	nent Cod	de			
CR : Crops	5						
	Inspector Comment						
Ask the lar	Ask the landowner to remove the nut trees.						



View of the nut trees planted by a landowner.

LM Start	1.06	Rating **	С	Issue No.		13	
LM End	1.06	Issue Type +	En	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Encroachi	ments	39.1713	60°	39.171360	0	
пеш				-121.747381		-121.747381	0
DWR ID	DWR_ST00	020_01_s _ 201	6_13				
		Comn	nent Coo	le			
AV : Aban	doned veh	icles					
	Inspector Comment						
	Water truck on w/s slope with tire stuck in soft soil leaning toward channel, and 2005 DMV registration.						

No Photos

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

### Levee Inspection Report By Mile - Fall 2016

## **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/02/2016 11/02/2016	Tariq Chechi

LM Start	1.09	Rating **	М	Issue No.		27
LM End	1.09	Issue Type +	En	Location *	WS	
Category	Suppleme	ental		GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UCI	P Field Study		39.17130	1°	39.171301°
пеш				-121.73979	)°	-121.739799°
DWR ID						

# Comment Code

#### Inspector Comment

FS\_ID:50326 DS\_ID:19434 EP\_NO: 12746-1 Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/11/2016 Crossing appears to be in good condition. Still no flapgate installed on the WS but unsure if its even necessary. (DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition. Still no flapgate installed on the WS but unsure if its even necessary. (DWR Sutter Yard - afreitag)5/12/2015 Still no flap gate on pipe end but i believe the LS inlet is high enough to not allow water to flow through pipe. (DWR Sutter Yard - afreitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)11/4/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/15/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/16/2012 There is no flap gate or other device to prevent water from flowing back through the pipe at the outlet. (DWR UCIP - wwylie)

FIELD\_STRUCT\_DESC: 24-inch reinforced concrete drainage pipe through the levee, 2 feet below the crown. Steel deflector is located on the outlet visible on the waterside (WS). No flap gate installed as of April 2016. (Permit No. 12746, 1979 - Dan Garcia; named change and flap gate authorized under Permit No. 12746-1, 2016 - County of Sutter). FS Date: 10/12/2016 7:48:21 AM

# Photo 1 of 1 : UCIP\_FA\_2016\_50326\_11345.jpg



Outlet in channel with steel deflector over pipe outlet.

LM Start	1.11	Rating **	М	Issue No.		19	
LM End	1.11	Issue Type +	En	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory		Start		End			
Item	Encroachments			39.1712	83°	39.171283°	
item			-121.7393	15 °	-121.739315°		
DWR ID	R ID DWR_ST0020_01_f _ 2016_19						
Comment Code							

#### PR : Prunings

#### Inspector Comment

Remove prunings from the landside toe.

#### Photo 1 of 1: FA\_2016\_ST0020\_213\_19\_20161107\_00023.jpg



View of the prunings along the landside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/02/2016 11/02/2016	Tariq Chechi

LM Start	1.11	Rating **	M	Issue No.		18		
LM End	1.28	Issue Type +	Ma	Location *		LS		
Category	evee	GPS La	atitud	e/Longitude				
Calegory				Start		End		
Item	Trim / Thin Trees			39.1712	83°	39.171243°		
пеш				-121.739315°		-121.736312°		
DWR ID DWR_ST0020_01_f _ 2016_18								
Comment Code								
T1 : Trim t	rees to at l	east five feet	above g	round level				
Inspector Comment								



View of the trees blocking visibility.

LM Start	1.25	Rating **	М	Issue No.		20		
LM End	1.25	Issue Type +	En	Location *		LS		
Category Earthen Levee				GPS Latitude/Longitude				
Calegory	tegory					End		
Item	Encroachments			39.1712	37°	39.171237°		
пеш			-121.7368	03 °	-121.736803 °			
DWR ID DWR_ST0020_01_f _ 2016_20								
Comment Code								

PR : Prunings

Inspector Comment

Remove prunings from the landside toe.

No Photos

LM Start	1.26	Rating **	М	Issue No.		21		
LM End	1.26	Issue Type +	En	Location *		LS		
0-4	evee	GPS La	atituc	le/Longitude				
Category				Start		End		
Item	Encroachi	Encroachments			27°	39.171227°		
пеш				-121.7365	48°	-121.736548°		
DWR ID	DWR ID DWR_ST0020_01_f _ 2016_21							
		Comn	nent Coo	de				
PR : Pruni	ngs							
	Inspector Comment							
Remove prunings from the landside toe.								



View of the prunings along the landside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## **Levee Inspection Report By Mile - Fall 2016**

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/02/2016 11/02/2016	Tariq Chechi

LM Start	1.33	Rating **	М	Issue No.		22	
LM End	1.33	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Erosion / I	Bank Caving		39.1712	18°	39.171218°	
iteiii			-121.735258°		-121.735258°		
DWR ID DWR_ST0020_01_f _ 2016_22							
		Comn	nent Cod	de			
E1 : Note	and monito	or erosion site					
Inspector Comment							

Photo 1 of 1: FA\_2016\_ST0020\_213\_22\_20161107\_00026.jpg



View of the erosion along the bank.

LM Start	1.36	Rating **	М	Issue No.		24		
LM End	1.36	Issue Type +	Ma	Location *	WS			
Category	evee	GPS La	atitud	e/Longitude				
Calegory		Start		End				
Item	Erosion / I	Bank Caving		39.1712	20°	39.171220°		
item				-121.734730 °		-121.734730°		
DWR ID	DWR ID DWR_ST0020_01_f _ 2016_24							
		Comn	nent Cod	de				
E1 : Note a	E1 : Note and monitor erosion site.							
	Inspector Comment							

#### Photo 1 of 1: FA\_2016\_ST0020\_213\_24\_20161107\_00027.jpg



View of the erosion along the bank.

LM Start	1.65	Rating **	U	Issue No.		6		
LM End	1.65	Issue Type +	Ma	Location *		WS		
Category	Rivers, Ch			GPS La	atitud	le/Longitude		
Calegory	Designate	d Floodways		Start		End		
Item	Erosion / I	Erosion / Bank Caving			32°	39.171132°		
item				-121.7293	812°	-121.729312°		
DWR ID DWR_NA0020_01_s _ 2012_6								
Comment Code								
Inspector Comment								
Sutter Yard needs to repair the erosion before winter.								

# Photo 1 of 2: FA\_2016\_ST0020\_213\_6\_20160823\_00007.jpg



Repair the erosion along the waterside slope.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/02/2016 11/02/2016	Tariq Chechi

LM Start	1.65	Rating **	U	Issue No.		6 (cont)		
LM End	1.65	Issue Type +	Ma	Location *		WS		
Category	Rivers, Ch			GPS Latitude/Longitude				
Calegory	Designate	d Floodways		Start		End		
Item	Erosion / I	Bank Caving		39.1711	32 °	39.171132°		
пеш					12 °	-121.729312°		
DWR ID DWR_NA0020_01_s _ 2012_6								
		Comn	nent Cod	de				
Inspector Comment								
Sutter Yard needs to repair the erosion before winter.								

Photo 2 of 2 : FA\_2016\_ST0020\_213\_6\_20160823\_00008.jpg

Repair the erosion along the waterside slope.

## **Unit Cover Sheet**

## Fall 2016 Levee Inspection Results

## **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles
Unit No. 02 East Levee	Left	3.05

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/17/2016 - 3/17/2016		11/2/2016 - 11/2/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

#### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

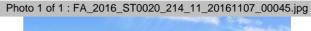
The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	0.00	Rating **	М	Issue No.		11	
LM End	0.26	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		39.1711	16°	39.171101°	
пеш				-121.7265	01°	-121.721857°	
DWR ID DWR_NA0020_02_s _ 2012_11							
		Comn	nent Cod	de			
V1 : Contreasements		rass and wee	ds on th	e levee slo	pes	and	
		Inspecto	or Comm	nent			





View of the annual grass along the landside slope.

LM Start	0.03	Rating **	М	Issue No.		24		
LM End	0.25	Issue Type +	Ма	Location *		WS		
Earthen Levee				GPS Latitude/Longitude				
Category						End		
Item	Vegetation				52°	39.171160°		
пеш				-121.7259	37°	-121.721673°		
DWR ID DWR_ST0020_02_f _ 2016_24								

#### **Comment Code** V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



View of the annual grass along the waterside slope.

LM Start	0.20	Rating **	С	Issue No.		25		
LM End	0.20	Issue Type +	En	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Encroachi	Encroachments			30°	39.171130°		
item				-121.7226	54°	-121.722654°		
DWR ID	DWR ID DWR_ST0020_02_s _ 2016_25							
		Comm	nent Cod	le				
DE : Debri	s							
	Inspector Comment							
Discarded box freezer on landside.								

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

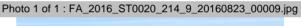
LM Start	0.25	Rating **	М	Issue No.		12		
LM End	0.25	Issue Type +	En	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Encroachi	ments		39.1711	07°	39.171107°		
item				-121.722069 °		-121.722069 °		
DWR ID	DWR ID DWR_NA0020_02_s _ 2012_12							
		Comn	nent Coo	de				
GA : Garba	age							
		Inspecto	or Comm	nent				
Tires								

Photo 1 of 1 : FA\_2016\_ST0020\_214\_12\_20160823\_00011.jpg



View of the tires along the W/S toe.

LM Start	0.26	Rating **	М	Issue No.		9			
LM End	0.26	Issue Type +	En	Location *		LS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory				Start		End			
Item	Encroachi	ments		39.1711	01°	39.171101°			
пеш			-121.721856°		-121.721856°				
DWR ID	DWR ID DWR_NA0020_02_s _ 2012_9								
		Comn	nent Cod	de					
DE : Debri	S								
			_						
Inspector Comment									





View of the debris along the landside toe.

LM Start	0.29	Rating **	М	Issue No.		31	
LM End	0.29	Issue Type +	Ма	Location *	WS		
Catagoria Earthen Levee			GPS L	atitud	e/Longitude		
Category				Start		End	
Item	Trim / Thi	n Trees		39.1710	° 800	39.171008°	
item				-121.721025 ° -121.72			
DWR ID DWR_ST0020_02_f _ 2016_31							
		Comn	nent Cod	de			
T1 : Trim t	rees to at I	east five feet	above g	round level			
		Inspecto	or Comm	nent			



View of the overgrown trees blocking visibility and access.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Fall 2016

## **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	0.31	Rating **	M	Issue No.		32
LM End	0.47	Issue Type +	En	Location *		LS
Earthen Levee				GPS La	atitud	e/Longitude
Category				Start		End
Item	Encroachi	ments		39.1710	50°	39.171077°
item				-121.7205	-121.717735°	
DWR ID	DWR_ST00	020_02_f _ 2010	5_32			
		Comn	nent Cod	de		
FW : Firew	/ood					
		Inspecto	or Comm	nent		



View of the firewood along the landside toe.

LM Start	0.39	Rating **	М	Issue No.		33		
LM End	0.39	Issue Type +	En	Location *		LS		
Supplemental				GPS Latitude/Longitude				
Calegory	Category			Start		End		
Itom	DWR UCI	IP Field Study		39.1710	67°	39.171067°		
Item		-121.7192	17°	-121.719217°				
DWR ID								

## Inspector Comment

Comment Code

FS\_ID:50335 DS\_ID:19425 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/11/2016 Abandoned crossing.(DWR Sutter Yard - afreitag)4/19/2016 Abandoned crossing.5/12/2015 Abandoned crossing.11/17/2014 Same as last inspection.5/12/2014 Same as last inspection.5/15/2013 Same as last inspection.11/4/2013 Same as last inspection.5/15/2013 Same as last inspection.10/16/2012 Pipe and pump abandoned. Pipe should be removed or properly abandoned.

FIELD\_STRUCT\_DESC: 8-inch galvanized iron irrigation pipe through the levee, 2 feet below the crown. 7.5 Horsepower (HP) pump located in canal on the waterside (WS). [Additional Reference(s): DWR Levee Log, Revised 1990. USACE Sacramento O&M Manual 135, revision May 1953, page 11, Location Section 12, As-builts Drawing No. 50-10-2816.]

FS Date: 10/12/2016 8:12:30 AM



Pipe on LS slope.

## Levee Inspection Report By Mile - Fall 2016

## **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	0.39	Rating **	М	Issue No.		33 (cont)		
LM End	0.39	Issue Type +	En	Location *	LS			
Category	Suppleme	ental	GPS Latitude/Longitu					
Calegory	alegory			Start		End		
Item	DWR UC	P Field Study		39.17106	67°	39.171067°		
пеш				-121.7192	17°	-121.719217°		
DWR ID								
	Comment Code							

## Inspector Comment

FS\_ID:50335 DS\_ID:19425 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/11/2016 Abandoned crossing.(DWR Sutter Yard - afreitag)4/19/2016 Abandoned crossing.5/12/2015 Abandoned crossing.11/17/2014 Same as last inspection.5/12/2014 Same as last inspection.11/4/2013 Same as last inspection.5/15/2013 Same as last inspection.10/16/2012 Pipe and pump abandoned. Pipe should be removed or properly abandoned.

FIELD\_STRUCT\_DESC: 8-inch galvanized iron irrigation pipe through the levee, 2 feet below the crown. 7.5 Horsepower (HP) pump located in canal on the waterside (WS). [Additional Reference(s): DWR Levee Log, Revised 1990. USACE Sacramento O&M Manual 135, revision May 1953, page 11, Location Section 12, As-builts Drawing No. 50-10-2816.]

FS Date: 10/12/2016 8:12:30 AM



Pump platform on LS slope.

LM Start	0.53	Rating ***	M	issue ivo.		28	
LM End	0.53	Issue Type +	Ma	Location *		WS	
Category	Category Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Item	Encroachments			39.1710	28°	39.171028°	
пеш				-121.7164	75°	-121.716475 °	
DWR ID	DWR_ST00	020_02_s _ 201	6_28				
		Comn	nent Cod	de			
DE : Debri	S						
Inspector Comment							
Tires and t	Tires and tree clippings on w/s crown.						

#### Photo 1 of 1: FA\_2016\_ST0020\_214\_28\_20161107\_00049.jpg



View of the tires along the waterside berm.

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

	0.55	Poting **	N 4	Issue No.			
LM Start	0.55	Rating **	М	issue ivo.		2	
LM End	1.42	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS L	atitud	e/Longitude		
Calegory				Start		End	
Item	Vegetatio	n		39.1710	002°	39.170770°	
item			-121.7162	93°	-121.699987°		
DWR ID DWR_NA0020_02_s _ 2012_2							
		Comn	nent Cod	de			
V1 : Contro easements		rass and wee	eds on th	e levee slo	pes a	and	
		Inspecto	or Comm	nent			
Remove th	e vegetati	on from both	slopes.				



View of the vegetation on both slopes.

LM Start	0.65	Rating **	М	Issue No.		29	
LM End	0.65	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS L	atitud	e/Longitude		
Calegory				Start		End	
Item	Encroachments				33°	39.171033°	
пеш				-121.7143	-121.714398°		
DWR ID DWR_ST0020_02_s _ 2016_29							
		Comn	nent Cod	de			
DE : Debri	S						
		Inspecto	or Comm	nent			
Mattress and tree clippings on landside.							

No Photos

## Levee Inspection Report By Mile - Fall 2016

## **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	0.74	Rating **	М	Issue No.		44			
LM End	0.74	Issue Type +	En	Location *		LS			
Category	Supplemental				GPS Latitude/Longitude				
Calegory	Category			Start		End			
Item	DWR UCIP Field Study			39.17098	89°	39.170989°			
пеш				-121.7126	50°	-121.712650°			
DWR ID									

# Inspector Comment

Comment Code

FS\_ID:50336 DS\_ID:19426 EP\_NO: N/A

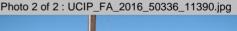
Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/11/2016 Abandoned crossing.(DWR Sutter Yard afreitag)4/19/2016 Abandoned crossing.5/12/2015 Abandoned crossing. Needs to be properly abandoned.11/17/2014 Same as last inspection.5/12/2014 Same as last inspection.11/4/2013 Same as last inspection.5/15/2013 Same as last inspection.10/16/2012 Pumping plant abandoned. Pipe abandoned and only visible at bottom of concrete standpipe. Pipe needs to be abandoned properly. FIELD\_STRUCT\_DESC: 12-inch galvanized iron irrigation pipe through the levee 6 feet below the crown. 10 Horsepower (HP) pump in the canal and power pole located on the waterside (WS). 36-inch concrete standpipe located on the landside (LS) shoulder. [Additional Reference(s): DWR Levee Log, Revised 1990. USACE Sacramento O&M Manual 135, May 1953, page 11, Location Section 19, As-builts Drawing No. 50-10-2816]
FS Date: 10/12/2016 8:16:33 AM

LM Start	0.74	Rating **	М	Issue No.	44 (cont)
LM End	0.74	Issue Type +	En	Location *	LS



Concrete standpipe on LS shoulder.





Powerpole on WS shoulder.

\* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

\*\* Rating
A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

\*\* Rating
A: Acceptable M: N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

	D (' ++		1 N1.					
1.33	Rating **	С	Issue No.		30			
1.33	Issue Type +	En	Location *		CR			
Earthen L	evee		GPS La	atitud	e/Longitude			
			Start		End			
Encroachments			39.1708	14°	39.170814°			
				73°	-121.701573°			
DWR ID DWR_ST0020_02_s _ 2016_30								
	Comn	nent Coc	le					
S								
Inspector Comment								
is pile on v	waterside beri	n.						
	Earthen L Encroachi DWR_ST00	1.33 Issue Type + Earthen Levee Encroachments  DWR_ST0020_02_s _ 201	1.33 Issue Type + En  Earthen Levee  Encroachments  DWR_ST0020_02_s _ 2016_30  Comment Cocs	1.33   Issue Type +   En   Location *	1.33   Issue Type +   En   Location *    Earthen Levee   GPS Latitud   Start   Encroachments   39.170814   -121.701573    DWR_ST0020_02_s _ 2016_30   Comment Code   S   Inspector Comment			

No Photos

LM Start	1.43	Rating **	М	Issue No.		3		
LM End	1.52	Issue Type +	Ма	Location *		LS		
Category	Earthen Levee					le/Longitude		
Category				Start		End		
Item	Encroach	ments		39.1707	'82 °	39.170865°		
Item				-121.700167°		-121.698165°		
DWR ID	DWR ID DWR_NA0020_02_s _ 2012_3							
		Comn	nent Cod	de				
DE : Debri	S							
		Inchecte	or Comm	ont				
		· · · · · · · · · · · · · · · · · · ·	JI COIIIII	ienii				
Remove the broken concrete.								

Μ

Ма

Issue No.

Location \*

3 (cont)

LS

Rating \*\*

Issue Type +

LM Start

LM End

1.43

1.52

<i>Madella</i>			ut.	4
		100		
	*a *		0	3/24/2014

Photo 1 of 2: FA\_2016\_ST0020\_214\_3\_20160823\_00003.jpg

View of the piles of broken concrete.

Photo 2 of 2: FA\_2016\_ST0020\_214\_3\_20160823\_00004.jpg



View of the pile of broken concrete.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Fall 2016

## **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	1.54	Rating **	M	Issue No.		34	
LM End	1.54	Issue Type +	En	Location *		LS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory	Calegory			Start		End	
Item	DWR UC	DWR UCIP Field Study			47 °	39.170847°	
пеш				-121.69788	38°	-121.697888 °	
DWR ID							

# Comment Code

#### Inspector Comment

FS\_ID:50341 DS\_ID:19423 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/11/2016 LS inlet is buried and WS flapgate is overgrown with blackberries. (DWR Sutter Yard - afreitag)4/19/2016 WS flapgate is completely overgrown with blackberries. 5/12/2015 LS inlet still buried with soil and blackberries on WS have blocked the flap gate. LS intake is filled and blocked with soil. 11/17/2014 Ws outlet of pipe is overgrown and blocked from opening by blackberries. LS inlet still appears to be buried/blocked by soil.5/12/2014 Same as last inspection. 11/4/2013 Same as last inspection.

FIELD\_STRUCT\_DESC: 16-inch corrugated metal drainage pipe through the levee, 5 feet below the crown. Flap gate located on the waterside (WS) end. Landside (LS) inlet filled and blocked with soil 2012. [Additional Reference(s): DWR Levee Log, Revised 1990] FS Date: 10/12/2016 8:32:49 AM

LM Start	1.54	Rating **	М	Issue No.	34 (cont)
LM End	1.54	Issue Type +	En	Location *	LS



Pipe with flapgate at outlet on WS slope.

#### Photo 2 of 2: UCIP\_FA\_2016\_50341\_11405.jpg



Burried inlet 30 feet from LS shoulder.

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	1.54	Rating **	М	Issue No.		4	
LM End	2.01	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	atitude	e/Longitude	
Category				Start		End	
Item	Erosion / I	Bank Caving		39.1708	800°	39.170732°	
пеш				-121.698105°		-121.689082°	
DWR ID DWR_NA0020_02_s _ 2012_4							
Comment Code							
E1 : Note a	and monito	or erosion site					
		Inspecto	or Comm	nent			
Monitor the erosion along the waterside slope.							

LM Start	1.54	Rating **	М	Issue No.	4 (cont)
LM End	2.01	Issue Type +	Ma	Location *	WS



View of the erosion along the waterside slope.

Photo 2 of 2: FA\_2016\_ST0020\_214\_4\_20160823\_00006.jpg



View of the erosion along the waterside slope.

## Levee Inspection Report By Mile - Fall 2016

## **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	1.74	Rating **	M	Issue No.	35		
LM End	1.74	Issue Type +	En	Location *	WS		
Category	ental	GPS Latitude/Longitude					
Calegory	Start						
Item	DWR UCI	P Field Study		39.170832°		39.170832°	
пеш				-121.69417	74°	-121.694174°	
DWR ID							
	Comment Code						

## Inspector Comment

FS\_ID:50343 DS\_ID:20119 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/11/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 Crossing appears in good condition. No noticeable issues to report.11/17/2014 Same as last inspection.5/12/2014 Same as last inspection.11/4/2013 Same as last inspection.5/15/2013 Same as last inspection.10/16/2012 No permit identified for crossing.

FIELD\_STRUCT\_DESC: 5-inch aluminum drainage pipe through the levee, 1 foot below the crown. Flap gate located on the waterside (WS) with concrete headwall block on the landside (LS). No permit has been identified since crossing was field discovered in 2012.

FS Date: 10/12/2016 8:42:27 AM

LM Start	1.74	Rating **	М	Issue No.	35 (cont)
LM End	1.74	Issue Type +	En	Location *	WS



pipe with flap gate on WS shoulder.

Photo 2 of 2: UCIP FA 2016 50343 14334.jpg



Concrete headwall on LS shoulder.

## Levee Inspection Report By Mile - Fall 2016

## **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	1.74	Rating **	М	Issue No.	36		
LM End	1.74	Issue Type +	En	Location *	WS		
Category	Suppleme	ental	GPS Latitude/Longitude				
Calegory	Category					End	
Item	DWR UCI	P Field Study		39.17083	2 °	39.170832	0
пеш				-121.69417	'4 °	-121.694174	0
DWR ID							
	Comment Code						

## Inspector Comment

FS\_ID:50344 DS\_ID:20122 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/11/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 Crossing appears in good condition. No noticeable issues to report.11/17/2014 Same as last inspection.5/12/2014 Same as last inspection.11/4/2013 Same as last inspection.5/15/2013 Same as last inspection.10/16/2012 No permit identified for crossing.

FIELD\_STRUCT\_DESC: 7-inch flexible high-density polyethylene (HDPE) drainage pipe through the levee, 1 foot below the crown. No permit has been identified since crossing was field discovered in 2012. FS Date: 10/12/2016 8:51:36 AM



HDPE pipe on upstream side of aluminum pipe shown in picture.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

## Levee Inspection Report By Mile - Fall 2016

## **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	1.76	Rating **	М	Issue No.		37		
LM End	1.76	Issue Type +	En	Location *	WS			
Category	Supplemental				GPS Latitude/Longitude			
Calegory				Start		End		
Item	DWR UCI	P Field Study		39.17080	6°	39.170806°		
item				-121.69376	9°	-121.693769°		
DWR ID								

## Comment Code

#### Inspector Comment

FS\_ID:50345 DS\_ID:20120 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/11/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 Crossing appears in good condition. No noticeable issues to report.11/17/2014 Same as last inspection.5/12/2014 Same as last inspection.11/4/2013 Same as last inspection.5/15/2013 Same as last inspection.10/16/2012 No permit identified for crossing.

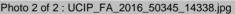
FIELD\_STRUCT\_DESC: 5-inch aluminum drainage pipe through the levee, 1 foot below the crown. Flap gate located on the waterside (WS) with concrete headwall block on the landside (LS). No permit has been identified since crossing was field discovered in 2012.

FS Date: 10/12/2016 9:01:02 AM

LM Start	1.76	Rating **	М	Issue No.	37 (cont)
LM End	1.76	Issue Type +	En	Location *	WS



Pipe and flap gate on WS shoulder.





Concrete headwall on LS shoulder.

## Levee Inspection Report By Mile - Fall 2016

## **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	1.76	Rating **	М	Issue No.		38
LM End	1.76	Issue Type +	En	Location *		WS
Category	Suppleme	ental		GPS La	tituc	le/Longitude
Calegory				Start		End
Item	DWR UCI	P Field Study		39.1708	06°	39.170806°
item				-121.69370	69°	-121.693769°
DWR ID						

# Comment Code

#### Inspector Comment

FS\_ID:50346 DS\_ID:20121 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/11/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 Crossing appears in good condition. No noticeable issues to report.11/17/2014 Same as last inspection.5/12/2014 Same as last inspection.11/4/2013 Same as last inspection.5/15/2013 Same as last inspection.10/16/2012 No permit identified for crossing.

FIELD\_STRUCT\_DESC: 7-inch flexible high-density polyethylene (HDPE) drainage pipe through the levee, 1 foot below the crown. No permit has been identified since crossing was field discovered in 2012.

FS Date: 10/12/2016 9:05:13 AM



HDPE pipe on WS shoulder.

LM Start	1.92	Rating **	М	Issue No.		5		
LM End	2.04	Issue Type +	En	Location *		LS		
Category	evee	GPS Latitude/Longitude						
Calegory				Start		End		
Item	Encroach	ments		39.1711	04°	39.171104°		
пеш				-121.7188	80°	-121.718876°		
DWR ID DWR_NA0020_02_s _ 2012_5								

#### Comment Code

#### EQ: Equipment

#### Inspector Comment

#### Photo 1 of 1: FA\_2016\_ST0020\_214\_5\_20160823\_00007.jpg



View of the equipment and buildings next to the landside berm.

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## Levee Inspection Report By Mile - Fall 2016

## **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	1.93	Rating **	M	Issue No.	39			
LM End	1.93	Issue Type +	En	Location *	LS			
Supplemental				GPS Latitude/Longitude				
Calegory	Category					End		
Item	DWR UC	P Field Study		39.17077	'1 °	39.170771 °		
item			-121.69063	81 °	-121.690631 °			
DWR ID								

## Inspector Comment

Comment Code

FS\_ID:50348 DS\_ID:20123 EP\_NO: N/A

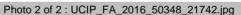
Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/11/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 Crossing appears in good condition. No noticeable issues to report.11/17/2014 Same as last inspection.5/12/2014 Same as last inspection.5/12/2014 Same as last inspection.5/22/2013 Erosion under pipe outlet has been repaired. Bank lined with rock to prevent future erosion.5/15/2013 Flexible pipe has been replaced with 6.5 inch steel with flap gate on WS. Erosion under WS outlet.11/4/2013 Same as last inspection.10/16/2012 No permit identified for crossing. FIELD\_STRUCT\_DESC: 7-inch flexible high-density polyethylene (HDPE) drainage pipe through the levee, 1 foot below the crown. Signage for crossing is visible on the landside (LS) shoulder. Outlet visible on the waterside (WS) shoulder. No permit has been identified since crossing was field discovered in 2012. FS Date: 10/12/2016 9:10:46 AM

LM Start	1.93	Rating **	М	Issue No.	39 (cont)
LM End	1.93	Issue Type +	En	Location *	LS



Inlet and signage for crossing on LS shoulder.





Outlet for crossing on WS shoulder.

\* Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

\*\* Rating

A : Acceptable N : Not Inspected/Rated M: Minimally Acceptable CR : Corrected U: Unacceptable A/W : Acceptable but Monitor & Maintain

\*\* Rating

A : Not Applicable M: Not Inspected/Rated M: Minimally Acceptable D: C: Corrected Ob: Design & System Obsolescence En: Enforcement

## Levee Inspection Report By Mile - Fall 2016

## **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	1.97	Rating **	М	Issue No.	40			
LM End	1.97	Issue Type +	En	Location *	LS			
Supplemental				GPS La	atitud	le/Longitude		
Category				Start		End		
Item	DWR UCI	P Field Study		39.1707	54°	39.170754°		
item				-121.6898	15 °	-121.689815 °		
DWR ID	ID							
Comment Code								

Inspector Comment

FS\_ID:50349 DS\_ID:20124 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/11/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 Crossing appears in good condition. No noticeable issues to report.11/17/2014 Same as last inspection.5/12/2014 Same as last inspection.5/12/2014 Same as last inspection.5/22/2013 Erosion under pipe outlet has been repaired and bank lined with rock to prevent future erosion.5/15/2013 Flexible pipe has been replaced with 6.5 inch steel with flap gate on WS outlet. Erosion under WS outlet.10/16/2012 No permit identified for this

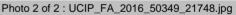
crossing.
FIELD\_STRUCT\_DESC: 7-inch flexible high-density polyethylene
(HDPE) drainage pipe through the levee, 1 foot below the crown. Pipe
visible on the waterside (WS) shoulder. Intake with grate visible on the
landside (LS). No permit has been identified since crossing was field
discovered in 2012.

FS Date: 10/12/2016 9:16:04 AM

LM Start	1.97	Rating **	М	Issue No.	40 (cont)
LM End	1.97	Issue Type +	En	Location *	LS



Pipe on WS shoulder.





Pipe on LS shoulder.

\* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

\*\* Rating
A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

\*\* Rating
A: Acceptable M: N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

## Levee Inspection Report By Mile - Fall 2016

## **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	2.03	Rating **	M	Issue No.		41		
LM End	2.03	Issue Type +	En	Location *	LS			
Supplemental				GPS Latitude/Longitude				
Calegory	Category					End		
Item	DWR UC	IP Field Study		39.1707	08°	39.170708°		
item			-121.6885	72°	-121.688572°			
DWR ID								

# Inspector Comment

Comment Code

FS\_ID:50351 DS\_ID:20125 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/11/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 Crossing appears in good condition. No noticeable issues to report.11/17/2014 Same as last inspection.5/12/2014 Same as last inspection.11/4/2013 Same as last inspection.5/15/2013 Same as last inspection.10/16/2012 No permit identified for this crossing.

FIELD\_STRUCT\_DESC: Steel fiber optic conduit through the levee at an unknown depth below the crown. Crossing is located on the east side of Township road bridge. Marker visible on east side of N. Township Drive, south of intercepter. Owner is Pacific and their contact number is 1-877-735-7366. No permit has been identified since crossing was field discovered in 2012.

FS Date: 10/12/2016 9:21:30 AM

LM Start	2.03	Rating **	М	Issue No.	41 (cont)
LM End	2.03	Issue Type +	En	Location *	LS

# Photo 1 of 2 : UCIP\_FA\_2016\_50351\_14369.jpg

Marker on east side of N Township Drive, south of intercepter.

Photo 2 of 2: UCIP\_FA\_2016\_50351\_14368.jpg



Closeup of marker.

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	2.03	Rating **	М	Issue No.		42		
LM End	2.03	Issue Type +	En	Location *	LS			
Category Supplemental				GPS Latitude/Longitude				
				Start		End		
Item	DWR UC	P Field Study		39.1707	08°	39.170708°		
пеш	m			-121.6885	66 °	-121.688566 °		
DWR ID								
Comment Code								

#### Inspector Comment

FS\_ID:50352 DS\_ID:20126 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/11/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 Crossing appears in good condition. No noticeable issues to report.11/17/2014 Same as last inspection.5/12/2014 Same as last inspection.11/4/2013 Same as last inspection.5/15/2013 Same as last inspection.10/16/2012 No permit identified for this crossing.

FIELD\_STRUCT\_DESC: Steel gas line crossing through the levee at an unknown depth below the crown. Sign visible on the landside (LS). No permit has been identified since crossing was field discovered in 2012. FS Date: 10/12/2016 9:24:54 AM

LM Start	2.03	Rating **	М	Issue No.	42 (cont)
LM End	2.03	Issue Type +	En	Location *	LS



Gasline marker on east side of N Township Road south of intercepter

Photo 2 of 2: UCIP\_FA\_2016\_50352\_14366.jpg



Gasline marker on east side of N Township Road North of intercepter

\* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

\*\* Rating

A: Acceptable N: Not Inspected/Rated C: Corrected M: Minimally Acceptable U: Unacceptable AW: Acceptable but Monitor & Maintain

\*\* Rating

A: Acceptable N: Not Inspected/Rated Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

## Levee Inspection Report By Mile - Fall 2016

## **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	2.05	Rating **	М	Issue No.		43	
LM End	2.05	Issue Type +	En	Location *		LS	
Category Supplemental			GPS Latitude/Longitude				
			Start		End		
DWR UCIP Field Study			39.1706	39°	39.170639°		
пеш				-121.6884	45 °	-121.688445°	
DWR ID							

# Inspector Comment

Comment Code

FS\_ID:50353 DS\_ID:20127 EP\_NO: N/A

2012.

Repair Type: Non-Urgent Crossing Status: Found

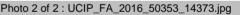
UCIP Comments: 10/11/2016 WS flap gate is being overgrown by blackberries that could possibly hinder its operation. They should be sprayed and cleared back.(DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 Crossing appears in good condition. No noticeable issues to report.11/17/2014 Same as last inspection.5/15/2013 Same as last inspection.5/15/2013 Same as last inspection.10/16/2012 No permit identified for this crossing. FIELD\_STRUCT\_DESC: 18-inch asphalt coated corrugated metal drainage pipe through the levee, 6 feet below the crown. Flap gate is located on the waterside (WS). Pipe is visible on the landside (LS) toe. No permit has been identified since crossing was field discovered in

FS Date: 10/12/2016 9:27:19 AM

LM Start	2.05	Rating **	М	Issue No.	43 (cont)
LM End	2.05	Issue Type +	En	Location *	LS



Pipe on LS toe.





Location of pipe on LS toe.

## Levee Inspection Report By Mile - Fall 2016

# **Sutter Maintenance Yard East-West Interceptor**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/02/2016 11/02/2016	Tariq Chechi

LM Start	2.11	Rating **	М	Issue No.		6	
LM End	2.36	Issue Type +	Ma	Location *	LS		
Cotogony	Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Vegetation			39.170515°		39.170518°		
item				-121.687342 ° -121.6826			
DWR ID DWR_ST0020_02_f _ 2016_6							
Comment Code							
V1 : Control annual grass and weeds on the levee slopes and easements.							
Inspector Comment							



View of the annual grass along the landside slope blocking visibility.

LM Start	2.71	Rating **	М	Issue No.		10	
LM End	2.71	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory			Start		End		
Encroachments			39.170548°		° 39.170548°		
item				-121.675970°		-121.675970°	
DWR ID	D DWR_NA0020_02_s _ 2012_10						
Comment Code							
MA : Material							
Inspector Comment							
Remove the lumber, garbage and equipment from the landside toe.							



View of the material, garbage, and equipment along the landside toe